

Title (en)
Heat-resisting cast steel

Title (de)
Hitzebeständiger Gussstahl

Title (fr)
Acier coulé thermoresistant

Publication
EP 1001044 A3 20000906 (EN)

Application
EP 99125589 A 19980710

Priority
• EP 98305512 A 19980710
• JP 19092597 A 19970716

Abstract (en)
[origin: EP1405931A2] Heat resisting cast steel contains (wt.%) carbon (0.07-0.15), silicon (0.05-0.3), manganese (0.1-1) chromium (8-10), nickel (0.01-1), vanadium (0.1-0.3), niobium and tantalum (0.01 to 0.2), molybdenum (0.1-0.7), tungsten (1-2.5), cobalt (0.1-5), and nitrogen (0.03 to 0.07), and hafnium and/or neodymium (0.001-0.2), and balance being iron and incidental impurities.

IPC 1-7
C22C 38/18; **C22C 38/22**; **C22C 38/26**; **C22C 38/30**; **C22C 38/40**; **C22C 38/44**

IPC 8 full level
C22C 37/08 (2006.01); **C22C 38/00** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/52** (2006.01); **C22C 38/54** (2006.01); **C21D 1/18** (2006.01); **C21D 6/00** (2006.01)

CPC (source: EP US)
C21D 6/002 (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C21D 1/18** (2013.01 - EP US)

Citation (search report)
• [X] EP 0691416 A1 19960110 - JAPAN STEEL WORKS LTD [JP], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 002 29 February 1996 (1996-02-29) & JP H07286246 A 19951031 - NIPPON STEEL CORP, et al

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EP1347073A4; US7820098B2; WO2013020714A2; US10221445B2; WO2005095662A1; WO2022021816A1

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EP 0892079 A1 19990120; AT E259002 T1 20040215; AT E270717 T1 20040715; AT E270718 T1 20040715; CZ 212998 A3 19991117; DE 69821493 D1 20040311; DE 69821493 T2 20041223; DE 69824962 D1 20040812; DE 69824962 T2 20050630; DE 69824963 D1 20040812; DE 69824963 T2 20050728; EP 1001044 A2 20000517; EP 1001044 A3 20000906; EP 1001044 B1 20040707; EP 1001045 A2 20000517; EP 1001045 A3 20000906; EP 1001045 B1 20040707; EP 1002885 A2 20000524; EP 1002885 A3 20000906; EP 1002885 B1 20040204; EP 1004685 A2 20000531; EP 1004685 A3 20000906; EP 1405931 A2 20040407; EP 1405931 A3 20040421; ES 2214805 T3 20040916; ES 2222656 T3 20050201; ES 2224539 T3 20050301; JP H1136038 A 19990209; US 5997806 A 19991207

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EP 98305512 A 19980710; AT 99125588 T 19980710; AT 99125589 T 19980710; AT 99125597 T 19980710; CZ 212998 A 19980703; DE 69821493 T 19980710; DE 69824962 T 19980710; DE 69824963 T 19980710; EP 03029872 A 19980710; EP 99125588 A 19980710; EP 99125589 A 19980710; EP 99125596 A 19980710; EP 99125597 A 19980710; ES 99125588 T 19980710; ES 99125589 T 19980710; ES 99125597 T 19980710; JP 19092597 A 19970716; US 10337198 A 19980624